

Product name : LEONA SDS-No. : LE-W029-08

# SAFETY DATA SHEET

1. CHEMICAL PRO	DOUCT AND COMPANY IDENTIFICATION		
Product Name	LEONA <sup>TM</sup>		
	90W50		
SDS No.	LE-W029-08		
Company Name	ASAHI KASEI CORPORATION		
Address	1-105 Kanda Jinbo-cho, Chiyoda-ku, Tokyo 101-8101 Japan		
Contact Telephone	Number		
	ASAHI KASEI CORPORATION( <b>JAPAN</b> )		
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Emergency Telepho			
USA	CHEMTREC		
	United States : (800)424-9300 24hours Everyday		
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Others	Leona Plastics Technical Dept.		
	Phone +81-44-271-2561, Fax +81-44-271-2166		
	Business time : 9:00~18:00 on weekday		
Recommended us	e and restriction on use		
Recommended u	Plastic ingredient for home electronics, electronic materials, auto-		
	motive materials, industrial materials.		

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 Product name
 :
 LEONA

 SDS-No.
 :
 LE-W029-08

 Page
 :
 2 of 9

 First Issue
 :
 Nov, 09, 2011

 Revised
 :
 Apr., 01, 2016

# SAFETY DATA SHEET

#### Restriction on use

Please do not use our product LEONA for the following use.
Medical containers/ packaging/ equipment/ parts of in-vivo, or which contact with mucosa, body fluid, blood, chemical solution.
Equipments/ parts/ containers/ packaging which contact with food.
Toys which contacts with mouth, drinking water etc.

#### 2. HAZARDS IDENTIFICATION

[GHS-Classification]	
Health Hazards	Cannot be classified
Environmental Hazards	Cannot be classified
[GHS label element]	
Pictogram or symbol	-
Signal word	-
Hazard statements	-
Special Hazard	Gas is generated in melted condition.
[Precautionary statements	5]
Safety measures	Do not handle until all safety precautions have been read, under- stood and precautionary measures are taken. Do not eat, drink or smoke when using this product. Wear protective gloves, eye-protection if necessary. Take burn prevention measures especially when handling melted resin. Install effective local exhaust in extrusion press because gas is generated.

#### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Product Name

LEONA<sup>™</sup> 90W50

Chemical name or generic name

Polyhexamethylene adipamide and Polyhexamethylene isophtaramide copolymer (Polyamide66/6I) resin composition Mixture of polyamide resin and additives (Stabilizer, Filler etc.)

Components, Contents, CAS number and EINECS number

Product Name	Components	Contents [wt%]	CAS No.	EINECS No.
90W50	Polyamide66/6I	40-60	26353-66-2	N/A
	Glass fiber	40-60	65997-17-3	266-046-0
	Carbon black	0-1	1333-86-4	215-609-9
	Other additives	0-3	confidential	confidential
	Total:	100wt%		



 Product name
 :
 LEONA

 SDS-No.
 :
 LE-W029-08

 Page
 :
 3 of 9

 First Issue
 :
 Nov, 09, 2011

 Revised
 :
 Apr., 01, 2016

# SAFETY DATA SHEET

All of ingredients are listed on TSCA, EINECS(ELINCS), ENCS(JPN), ISHL(JPN), and IECSC(CHN) inventories.

These ingredients are corresponding to the REACH regulations.

These products do not contain Substances of Very High Concern(SVHC) concentration above 0.1wt%

## 4. FIRST AID MEASURES

### Swallowed

If swallowed accidentally, vomit immediately and get medical attention/advice if any abnormality occurs.

Eyes

Do not rub if in eyes, wash with plenty of water. Remove contact lenses immediately. If abnormality is observed get medical attention and advice.

Skin

Do not peel off melted material; cool down affected area with plenty of water for more than 30 minutes. Then get medical attention.

Inhaled

If you feel unwell, move away from the working place immediately to well-ventilated area. Get medical advice if necessary.

Protection who gives the first aid

Those who suffer from any abnormality should get medical attention.

# WARNING :Do not attempt removal of plastic without medical assistance. Do not use solvent for removal.

For processing fume inhalation irritation leave contaminated area and breathe fresh air. If coughing, difficult breathing or any other symptoms develop, seek medical attention at once, **even if symptoms develop at a later time**.

For skin contacts with condensate, immediately wash thoroughly with soap and water If irritation develops, seek medical attention.

### 5. FIRE-FIGHTING MEASURES

Extinguisher

Pouring water, spraying water and other extinguisher can be used.

Specific hazards

Strong heat, black fume and gases such as  $CO_2$ , CO, slight amount of HCN,  $NH_3$  may be generated on fire.

Specific fire fighting method

Use the same fire fighting method as the general fire. Fight fire from the safe distance. Protection of fire fighter

Wear fire retardant clothing and respiratory equipment when fighting fire. Work from the windward.



 Product name
 :
 LEONA

 SDS-No.
 :
 LE-W029-08

 Page
 :
 4 of 9

 First Issue
 :
 Nov, 09, 2011

 Revised
 :
 Apr., 01, 2016

# SAFETY DATA SHEET

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Clean up the floor immediately because it may be slippery if pellet or powder remains.

**Environmental precautions** 

Collect all leakage on the water surface such as drain system considering adverse effect to avian species and fish.

Methods for recovery, neutralization, containment and cleaning up.

Sweep up or clean with vacuum cleaner, collect and dispose of.

Prevention of secondary disaster

See "13. DISPOSAL CONSIDERATION"

### 7. HANDLING AND STORAGE

Handling

Engineering measures

Wear eye protection, heat-resistant gloves, long-sleeved work clothing for burn prevention when handling melted resin. Avoid breathing gases generated from the melted resin.

Local exhaust, total ventilation

Use effective local exhaust at the generating point of gases because gasses are generated when handling melted resin using extruder or injection molding machine. Perform total ventilation by ventilation fan at indoor or working area operating above procedure.

Cautions to fire

This resin in pellet condition is flame-retardant resin component and does not ignite or explode at room temperature. However gases may be generated if fire occurs in neighborhood and fire fighting activity may become difficult. Therefore keep working area neat and tidy, do not use fire.

- (1) Do not use heater with open flame. (stove, open fire, etc)
- (2) Do not carry match, lighter. No smoking.
- (3) Ground facilities and equipments (extruder, molding machine, air-conveying line, bag filters, etc) in order to prevent static discharge.
- (4) Use safe non-sparking tools.

(5) Avoid generation or approach of any other ignition sources.

Precautions for safe handling

- (1) Do not eat or drink when using this product.
- (2) If leaked on the floor, remove and keep cleaned up. If leakage is left the floor becomes slippery and may cause a fall.
- (3) Determine and keep proper working process.

Storage



 Product name
 :
 LEONA

 SDS-No.
 :
 LE-W029-08

 Page
 :
 5 of 9

 First Issue
 :
 Nov, 09, 2011

 Revised
 :
 Apr., 01, 2016

# SAFETY DATA SHEET

Store at the place where fulfills below storage conditions.

(1) Protect from direct sunlight.

(2) Protect from high temperature and humidity.

(3) Store and keep away from ignition source.

(4) Take precautionary measures against static discharge.

Safe containers and packaging material

Containers and packaging materials should fulfill storage conditions.

#### 8. EXPORSURE CONTROLS / PERSONAL PROTECTION

Facility measures

See "7. HANDLING AND STORAGE" for facility measures.

Administrative level, allowable limit

Gases are generated from melted resin but administrative level and allowable limit are not established.

Dust

Allowable limit for this resin is not established in ACGIH. However below values are applicable for dust.

<Airborne Exposure Limit (reference 1,2)>

[OSHA PEL]

15 mg/m<sup>3</sup> (Total dust)

5 mg/m<sup>3</sup> (Respirable fraction)

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[ACGIH : TLV-TWA(2015)]
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10 mg/m<sup>3</sup> (Inhalable particulate)

3 mg/m<sup>3</sup> (Respirable particulate)

Protective equipment

Respiratory protection

Wear gas mask for organic gas when working in a place where generated gas or fume may be breathed. Wear dust control mask when dust is caused by the works such as machinery processing of resin product, sanding, removing resing powder from bag filter, cleaning of sieving machine.

Hand protection

It is recommended to wear hand protection if necessary. Especially when handling melted resin, wear heat-resistant gloves for burn prevention.

Eye protection

It is recommended to wear side-shielded eye protection made with resin, resin goggles. Skin and body protection

Wear long-sleeved clothing when handling melted resin for burn prevention.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance :	Pellet
Physical state :	Solid
Odor :	Slight specific odor

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 Product name
 :
 LEONA

 SDS-No.
 :
 LE-W029-08

 Page
 :
 6 of 9

 First Issue
 :
 Nov, 09, 2011

 Revised
 :
 Apr., 01, 2016

# SAFETY DATA SHEET

pH :	Not applicable
Melting point	220-245 °C (428-473 °F)
Decomposition point :	Over 330 °C (Over 626 °F)
Ignition point :	Over 400 °C (Over 752 °F)
Flash point :	Over 400 °C (Over 752 °F)
Explosion limit :	No data
Upper / lower :	Precautionary measures for static discharge are necessary if han-
	dled as powder
Specific gravity :	1.4- 1.7
Solubility	
Water :	Insoluble
Other solvent :	Soluble in inorganic acid (formic acid, sulfuric acid etc.)
Octanol / water partition of	coefficient : No data

### **10. STABILITY AND REACTIVITY**

Stability :	Stable at room temperature as far as stored protected from direct sun-	
	light, away from fire or heat source.	
Reactivity :	No reactivity.	
Conditions to avoid :	Direct sunlight, fire, heat source and generation of its dust.	
Materials to avoid :	Not specific.	
Hazardous decomposition products :		
	Black fume, gases such as $CO_2$ , CO, slight amount of HCN, $NH_3$ may be	

generated in combustion.

## **11. TOXICOLOGICAL INFORMATION**

These products might contain Carbon black( $\leq 1$ wt%).

GHS classification is shown in the table as below. This toxicological classification is based on reference 3 and 4.

	Resin	Carbon black(*1)	Classification of the
	Additives		products
Content	≥ 99wt%	≤ 1wt%	
Carcinogenicity	Cannot be classified	Cannot be classified (*2)	Cannot be classified

\*1) See reference 4

\*2) In the report (reference 5), the toxicological status of carbon black is specified as "not applicable".

#### **12. ECOLOGICAL INFORMATION**

These products might contain Carbon black( $\leq 1wt\%$ ).



 Product name
 :
 LEONA

 SDS-No.
 :
 LE-W029-08

 Page
 :
 7 of 9

 First Issue
 :
 Nov, 09, 2011

 Revised
 :
 Apr., 01, 2016

# SAFETY DATA SHEET

GHS classification is shown in the table as below. This toxicological classification is based on reference 3 and 4.

	Resin	Carbon black(*1)	Classification of the
	Additives		products
Content	≥ 99wt%	≤ 1wt%	
Hazardous to the aquatic envi-	Cannot be classified	Not	Cannot be classified
ronment ( Acute Hazard )		classified	
Hazardous to the aquatic envi-	Cannot be classified	Cannot be classified	Cannot be classified
ronment ( Chronic Hazard )			

\*1) See reference 4

#### **13. DISPOSAL CONSIDERATIONS**

Dispose of according to regulation and standard of regional government.

Avoid direct release of waste containing this product (effluent, solid and washing water) to the river or landfill. In case of incineration treat by the method in accordance with relevant laws such as Air Pollution Control Law using the incinerator. Remove all the residues before disposal of the container (paper bag, drum, flexible container) of this product after use, dispose of in accordance with relevant laws and do not re-use for other usage.

#### **14. TRANSPORT INFORMATION**

Not Restricted
Not Restricted

Special safety precautions and conditions during transport :

Do not handle roughly and keep dry not to break packaging bag. If the bag is broken and pellet is spilt, pay attention not to fall by slippery floor. If transpoprted by air-conveying line take prevention measures against static discharge.

# 15. REGULATORY INFORMATION USA

# OSHA :

These products are not hazardous as defined by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

TSCA :

All ingredients are on the TSCA inventory.

40 CFR 799 Subpart B,C :	Not Applicable
40 CFR 721 Subpart E :	Not Applicable



 Product name
 :
 LEONA

 SDS-No.
 :
 LE-W029-08

 Page
 :
 8 of 9

 First Issue
 :
 Nov, 09, 2011

 Revised
 :
 Apr., 01, 2016

# SAFETY DATA SHEET

40 CFR 707 Subpart D :

40 CFR 747,749,761,762,763,766 : 40 CFR 712(d),(e) : Not Applicable Not Applicable Not Applicable

CERCLA/SUPERFUND (40 CFR 117,302) :

These products contain no Reportable Quantity (RQ) Substances.

## SARA Hazard Category :

These products have been reviewed according to the EPA Hazard Categories promulgated under SECTION 311 and 312 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the Following categories: Not to have met any hazard category.

### SARA 313 Information :

These products contain no substance subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

## U.S. State Regulations :

These products might be included Carbon black. These ingredients might be governed by various state regulations in U.S.

\*Please use these products after confirming the state regulations.

### EU

(EC) 1272/2008 (CLP) Annex VI Table 3.1 :		Not Applicable
(EC) 1272/2008 (CLP) Annex VI Table 3.2 :		Not Applicable
(EC) 1272/2008 (CLP) :		Not Applicable
REACH Annex XIV :	Not Applicable	
REACH Annex XVII :	Not Applicable	
SVHC (REACH) :	Does not contain more than 0.1wt%.	
ELV (2011/37/EU) :	Does not contain more than limit value.	
RoHS (2011/65/EU) :	Does not contain more than limit value.	

### China

Limited toxic chemical substances for export : Not Applicable Prohibited cargo list for import and export : Not Applicable List of Dangerous Goods : Those products don't contain the dangerous goods. List of Hazardous Chemicals : Those products don't contain the hazardous chemicals. General rule for classification and hazard communication of Chemicals. (GB.13690) : Not Applicable

### Korea

Prohibited or regulated toxic substances : Not Applicable

Toxic / Observed substances :

Those products don't contain the toxic or observed substances.

# Taiwan

Dangerous and Harmful Materials :

These products might contain the dangerous and harmful materials.

Material name	CAS No.	Maximum content
Carbon black	1333-86-4	1wt%



 Product name
 :
 LEONA

 SDS-No.
 :
 LE-W029-08

 Page
 :
 9 of 9

 First Issue
 :
 Nov, 09, 2011

 Revised
 :
 Apr., 01, 2016

# SAFETY DATA SHEET

Toxic substances :

Those products don't contain the toxic substances.

# **16. OTHER INFORMATION**

These products are used only for raw material of LEONA compound.

Use is prohibited to other usages.

Refer to "LEONA Technical information " for additional guidance and information

NOTE:

The information furnished in this Safety Data Sheet is accurate to the best knowledge of ASAHI KASEI CORPORATION ( "Asahi") as of the date of its publication.

This SDS is not intended to create any liability of any kind on the part of Asahi.

In no event will Asahi be responsible for any death, injury or damage of any nature resulting from the use of, reliance upon, or misuse of the SDS or material to which it refers.

The data on this sheet relates only to the specific material designated herein.

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This SDS is furnished under the express condition that all persons receiving it will make their own determination as to its suitability for their purpose prior to use.

Responsibility for compliance with applicable national or local regulations concerning dissemination of the SDS and sale and use of the material to which it refers rests solely upon the purchaser.

For more information, please contact Asahi at the address and telephone number listed on this sheet.

Reference

1) ACGIH, "Guide to Occupational Exposure Value", (2015)

2) ACGIH, "TLVs, and BEIs Based on the Documentation of the Threshold Values for Chemical Substances and Physical Agents & Biological Exposure Indices", (2015)

3) Incorporated Administration Agency National Institute of Technology and Education HP,

"Material List of GHS Classification", http://www.safe.nite.go.jp/ghs/list.html

4) Hazard information obtained from the supplier of carbon black

5) Japan Carbon Black Association, "The safety of carbon black as nano-materials", (2011)